

Patent Abstracts of Japan

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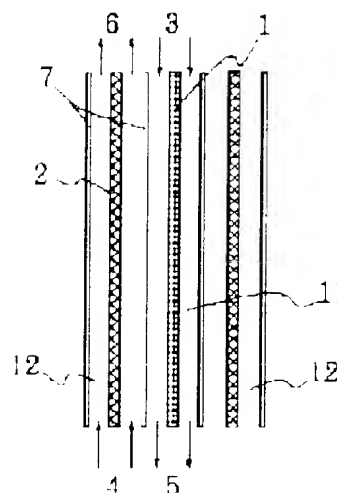
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APPLICATION NUMBER : 03350278

APPLICANT : COSMO OIL CO LTD;

INVENTOR : IWANAMI HIROICHI;

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TITLE : THIN TYPE STEAM REFORMING
REACTOR

ABSTRACT : PURPOSE: To provide a thin type steam reforming reactor for generating a gas contg. hydrogen by the reaction of hydrocarbons or alcohols with steam, appropriate as the fuel reformer for the fuel cell with hydrocarbons or alcohols as the fuel and capable of being set in a small area.

CONSTITUTION: A plate-fin compartment is set alternately in multiple stages to constitute a reaction chamber 11 provided with a thin-film steam reforming catalyst 1 and a heating chamber 12 furnished with a combustion catalyst 2. The thickness of the catalyst 1 and combustion catalyst is preferably controlled to 0.2 to 2mm and the thickness of the reaction chamber 11 and heating chamber 12 to 0.7 to 4mm. The plate-fin compartments can be concentrically set in multiple stages to constitute the reactor.

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